

RECEIVEATENT Attorney Docket No. 206008

AUG 16 200)

THAT THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

SAUNDERS et al.

Application No. 09/662,382

Filed: January 12, 2001

For: ADAPTIVE MULTIFILAR ANTENNA

Group Art Unit: 2821

Examiner: J. Clinger

9/14/03

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her mitials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

within any one of the following time periods: (a) within three months of the filing
date of a national application other than a continued prosecution application under
37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as
set forth in 37 CFR 1.491 of an international application; (c) before the mailing date
of a first Office Action on the merits; or (d) before the mailing of a first Office Action
after the filing of a request for continued examination under 37 CFR 1.114.

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\boxtimes	37 CF	(a), (b), (c) or (d) above, but before the mailing date of a final action under R 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that vise closes prosecution in the application, and includes <i>one</i> of:
		the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).
	$oxed{\boxtimes}$	the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).
	under and or 37 CF	he mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance 37 CFR 1.311, or an action that otherwise closes prosecution in the application or before payment of the issue fee, and includes the Statement under R 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as th in 37 CFR 1.17(p) (see "Fees" below).
	payme contain 37 CF \$180 a NOTE:	the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before ant of the issue fee, and within thirty days of receiving each item of information need in the Information Disclosure Statement, and includes the Statement under R 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of its set forth in 37 CFR 1.17(p) (see "Fees" below). This is for original applications except applications for a design patent, filed on or after a 2000, wherein a paper containing only an Information Disclosure Statement in compliance CFR 1.97 and 1.98 is being filed.
Copie	s of the	References
\boxtimes	Attach	s of the references listed on the enclosed Form 1449 are enclosed herewith, ed to each reference not in the English language is a concise explanation of the nce pursuant to 37 CFR 1.98(a)(3).
\boxtimes	A copy	of the foreign search report is enclosed herewith.
	parent furnish submit The E accord Proced relied	ferences listed on the enclosed Form 1449 were previously identified in the application(s) of the present application, and copies of the references were red at that time. Accordingly, additional copies of the references are not ted herewith, so as not to burden the file with duplicate copies of references. Examiner is respectfully requested to carefully review the references in ance with the requirements set out in the Manual of Patent Examining rure. In accordance with 37 CFR 1.98(d), the details of the parent application(s) upon for an earlier filing date under 35 USC 120 in which copies of the reces were previously furnished are set out below:

In re Appln. of Saunders et al. Application No. 09/662,382



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U.S. APPLI	CATIONS	Status (checkcone) LUGY CFRIE			
U.S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED	1. 2.000
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Statement under 37 CFR 1.97(e)										
	The undersigned hereby states that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.									
	Information Discloroffice in a counter undersigned after in Information Discloroffice.	hereby states that no sure Statement was cited rpart foreign patent appaking reasonable inquir osure Statement was known than three months nt.	in a communication, and it is no item of item of item of item of item of item on any	ication from a to the known to	a foreign patent owledge of the contained in the designated in					
State	ment under 37 CFR	1.704(d)	- ·							
	The undersigned hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.									
Fees	•									
	No fee is owed by the applicant(s). The IDS Fee of \$180 under 37 CFR 1.17(p) is enclosed herewith.									
Meth	od of Payment of Fe	es	•							
	Attached is a check in the amount of \$180.00. Charge Deposit Account No. 12-1216 in the amount of \$. (A duplicate copy of this communication is enclosed for that purpose.)									
Auth	orization to Charge	Additional Fees								
\boxtimes	If any additional fe	es are owed in connection	on with this co	mmunication	, please charge					

Deposit Account No. 12-1216. (A duplicate copy of this communication is enclosed for that purpose.)

In re Appln. of Saunders et al. Application No. 09/662,382

Instructions as to Overpayment

Credit Account No. 12-1216.

Gordon R. Coons, Reg. No. 20821 LEYDIG, VOIT & MAYER, LTD. Two Prudential Plaza, Suite 4900 180 North Stetson Chicago, Illinois 60601-6780

(312) 616-5600 (telephone) (312) 616-5700 (facsimile)

Date: August 8, 2001

CERTIFICATE OF MAILING

I hereby certify that this INFORMATION DISCLOSURE STATEMENT (along with any documents referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

Date: 6/8/01 Andre Com

IDS (Rev. 2/1/2001)

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	AUG 1 3 2001	Complete if Known		
Substitute for form 1449A/B/PTO	- A00 3 2001	/Application Number	09/6\$2,382 09 622,382	
INFORMATION DISCI	GELIDE 16	Filing Date	January 12, 2001	
INFORMATION DISCL STATEMENT BY APP	PADEMARK	First Named Inventor	SAUNDERS et al.	
STATEMENT BY APP	LICANI	Group Art Unit	2821	
(Use as many sheets as neces	sary)	Examiner Name	J. Clinger	

Attorney Docket Number

206008

Sheet

Examiner/Signature

		-		U.S. PATENT DOCUMENTS	/	
		U.S. Patent Do	cument		,	
Examiner Initials	Doc. No.	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate
	AA	4,554,554		Olesen et al.	/ 11/19/1985	
	ΑB	5,124,711		Sorais et al.	6/23/1992	
	AC	5,255,005		Terret et al.	10/19/1993	
	ΑD	5,600,341		Thill et al.	2/4/1997	
	ΑE	5,606,332		Darden, IV et al.	2/25/1997	
	ΑF	5,635,945		McConnel et al. /	6/3/1997	
	AG	5,896,113	T .	O'Neill, Jr.	4/20/1999	
	АН	5,920,292		O'Neill, Jr. /	7/6/1999	
				/ /		
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				FORE	IGN PATENT DOCUMENTS			
		Foreign Patent Document /					Trans	slation
Examiner Initials	Doc. No.	Office	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Yes	No*+
	ΑI	EP	715 369	/A1	Ińdian Space Research Organisation	6/5/1996		
	ΑJ	WO	97/11507 /		Qualcomm Incorporated	3/27/1997		
	ΑK	EP	767 508 /	Ą2	Nokia Mobile Phones Ltd.	4/9/1997		
	ΑL	EP	932 220 /	/AW	Matsushita Electric Industrial Co.	7/28/1999		

		OTHER - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Yes	No*+
	ΑМ	Agius et al., "Anterna Design for the ICO Handheld Terminal," 10th Int'l Conf. on Antennas & Propagation, 14-17, No. 436, pg. 1385-1389)(April 1997)		
	AN	Agius et al., "Intelligent Antennas for Mobile Handsets," 1st Surrey Symposium on Intelligent Antenna Technology for Mobile Communications, 28-29 (Univ. of Surrey, August, 1997)		
	AO	Agius et al., "Quadrifilar Helical Antenna (QHA) Characteristics of a Proposed Wire Antenna for an SPCN Handheld Terminal, Int'l Workshop on Mobile Communications, 19-21, pp. 35-50 (Thessaloniki, Greece; Sept. 1996)		
	ΑP	Egashira et al., "A Design of AM/FM Mobile Telephone Triband Antenna," IEEE Transactions on Antennas and Propagation, Vol. 42, No. 4 (April 1994)		
	AQ/	Kilgus, "Multelement, Fractional Turn Helices," <i>IEEE Transactions on Antennas and Propagation</i> , Vol. AP-16, pp. 499-500 (July 1968)		
	AR/	/Kilgus, "Resonant Quadrifilar Helix," <i>IEEE Transactions on Antennas and Propagation</i> , Vol. AP-17, pp. 349-351 (May 1969)		
	/AS	Kilgus, "Shaped-Conical Radiation Pattern Performance of the Backfire Quadrifilar Helix," IEEE Transactions on Antennas and Propagation (May 1975)	_	
	ΑT	Kilgus, "Resonant Quadrifilar Helix Design," Microwave J., pp. 49-53 (December 1970)		

Date Considered

A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).